

Welcome to PHYSICS!!!

SECA Physics
Monday 23 June 2014

H. Leslie Grebe
Room C-244



Opening Question:

Need to take the test?

Otherwise grab a worksheet and get ready for the video...

Sep 7-7:04 AM

Test Time!!!

H. Leslie Grebe

- * Get out your sheet of notes
- * Mix it up - one student per table, then sit diagonally with someone you don't usually sit by
- * On desk please only
 - pen/cil - test -note sheet
 - calculator -beverage
- * Please NO PEDs or talking while ANY tests are out

DO YOUR
BEST &
THEN GUESS
IF NEEDED

Sep 7-7:04 AM

Our 3 Questions

- * Most periods except test/project times
- * 3 Questions on the topics of the class
- * Main source of classwork points
- * I am happy to give full credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1) What from the play was compared to Newton's view of space?

STAGE

2) What did Casimir ^{EFFECT} predict would happen to 2 metal plates placed very close together?

PUSHED TOGETHER

3) What % of the universe is dark energy?

70

3b) What aspect of light interested Einstein?

Jun 23-11:30 AM

Welcome back...

H. Leslie Grebe



Opening Question:

REFLECT = BOUNCE OFF \Rightarrow SEE YOUR SHIRT

What does refraction mean again? Examples?

BEND LIGHT

STRAW IN WATER GLASS

MAGNIFYING

WATER-RAINDROPS

Sep 7-7:04 AM

Light experiments...

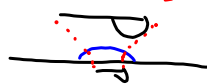
What do they tell us?

1) PENNY LOOKED SMALLER w/ MORE WATER

EYE	DRAWING	OBSVNS
NEAR	FAR	BLURRY
NEAR	SUPER CLOSE	CLEAR
FAR	NEAR	BENDS AROUND SIDES OF BEAKER

(CURVED SIDEWAYS)

3) IT'S MAGNIFIED



4) \bigcirc = CONVEX \Rightarrow MAGNIFYING

MORE LENSES \Rightarrow SHORTER IMAGE DISTANCE
FARSIGHTED = MAKE NEAR IMAGES CLEAR

HANDED	EYE	JUMPED
R	R	L
R	R	L
R	L	R
R	R	L

Jun 23-11:32 AM

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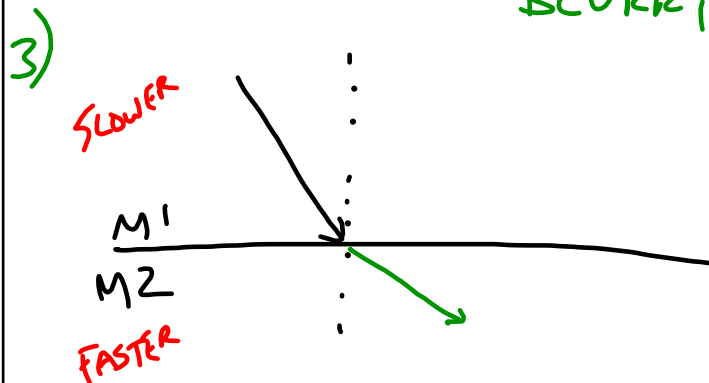
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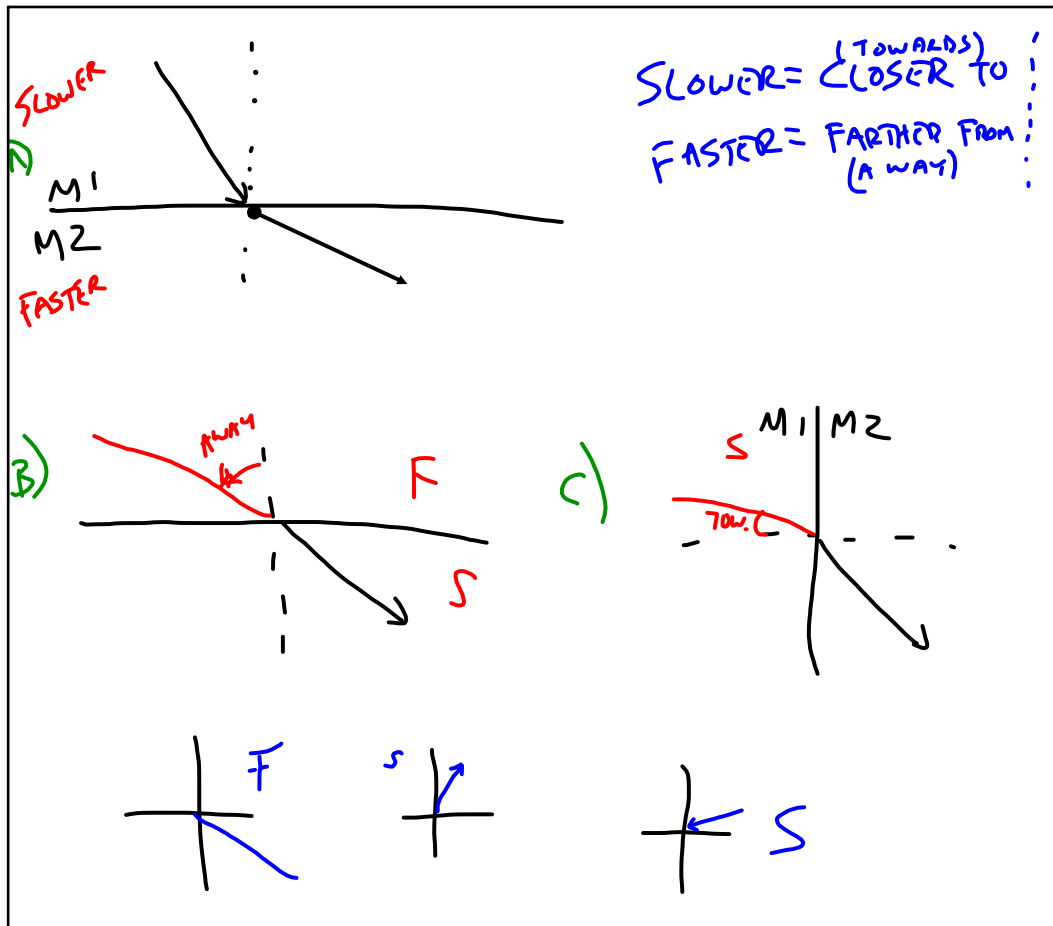
Sep 9-7:32 AM

1) WHAT HAPPENS TO IMAGE DISTANCE
AS MORE LENSES TOGETHER?
CLOSER / SHORTER

2) WHAT HAPPENS TO IMAGE WHEN
BEAKER IS FARTHER FROM THE DRAWING
BLURRY



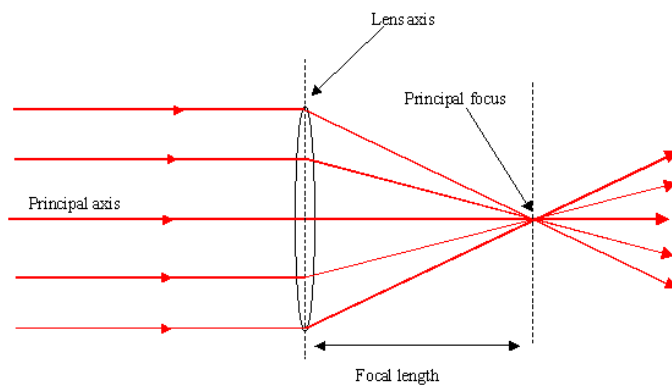
Jun 23-11:38 AM



Jun 23-2:04 PM

Welcome back...

H. Leslie Grebe



Opening Question:

How do you think mirrors and lenses are similar or different?

Sep 7-7:04 AM

Let's experiment with a convex lens

=> converges light

Need a partner

- find focal length of lens
- find object and image distances

What did we find???

Like Mirror???

Focal length?

Orientation?

Inside focal length what happened?

As flashlight moved farther,
screen moved _____

As flashlight moved farther,
image got _____

Nov 16-7:37 AM

1) What is the name of the distance where parallel light rays will be focused by a converging lens?

- a. object distance
- b. image distance
- c. focal length

2) **True or False:**

Images that form clearly on a cardboard screen (real images) are flipped (upside down).

3) What happens to the image size as the flashlight is moved farther from the lens?

- a. image gets **smaller**
- b. image stays the **same size**
- c. image gets **bigger**

Jun 18-11:20 AM

Practice worksheet on how light bends

Jun 23-11:41 AM